

**WHAT IS CLAIMED:**

1. A communications services network platform having a multi-layered software architecture residing on a host computer, the communications services network platform connected to a communications network, comprising:
  - a call processing stack that implements call processing by processing events associated with a communication path through the communications network, the stack having an application layer and a resource layer, the resource layer comprising software abstractions of physical resources located outside the host computer, the application layer representing each active call being processed by the call processing stack by allocating a plurality of call processing objects, including a session object representing the call and a plurality of leg objects, each representing a party to the call;
  - a link layer which manages a communications link between physically connected physical resources and the call processing stack; and
  - a service support subsystem for executing services requested by the call processing stack; wherein the platform manages and controls communications events associated with the communication path to complete a request for services between nodes on the communication network.